

DOCKET NO. PHA 23,534A (PHIL06-23534)
SERIAL NO. 09/882,082
PATENT

IN THE CLAIMS

Please amend the claims as follows.

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1. (Previously Presented) A device for receiving a video and/or audio signal comprising a plurality of different programs, comprising:
- an input that receives the video and/or audio signal;
 - a user interface that receives a user input identifying an event to be detected;
 - a detector that analyzes the video and/or audio signal of at least one program to detect the identified event in the program; and
 - a selector for automatically, upon detection of the identified event, providing to a display the program containing the event.
2. (Currently Amended) The device as claimed in claim 2, further including a picture-in-picture (PIP) device which automatically displays in a PIP the program having the detected event.

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3. (Previously Presented) A device for receiving a video and/or audio signal comprising a plurality of different programs, comprising:

an input that receives the video and/or audio signal;

a user interface that receives a user input identifying an audio event to be detected;

a speech-recognition device that analyzes the audio signal of at least one program to detect the identified audio event in the program; and

a selector for automatically, upon detection of the identified event, providing to a display the program containing the event.

4. (Original) The device as claimed in claim 1, wherein the detector is a text recognition device which scans the video information for text, and wherein the user interface includes a device which enables the user to enter as the event to be detected specific text.

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5. (Previously Presented) A device for receiving a video and/or audio signal comprising a plurality of different programs, comprising:

an input that receives the video and/or audio signal;

a user interface that receives a user input identifying a shape to be detected wherein the user interface includes a device which enables the user to enter, as the event to be detected, shape inputs;

a shape-detector device that analyzes the video signal of at least one program to detect the identified shape in the program; and

a selector for automatically, upon detection of the identified shape, providing to a display the program containing the shape.

6. (Original) The device as claimed in claim 5 wherein the shape detector analyzes MPG-4 video information.

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7. (Previously Presented) A device for receiving a video and/or audio signal comprising a plurality of different programs, comprising:

- an input that receives the video and/or audio signal;
- a user interface that receives a user input identifying an event to be detected;
- a detector that analyzes the video and/or audio signal of at least one program to detect the identified event in the program;
- a selector for automatically, upon detection of the identified event, providing to a display the program containing the event; and
- a memory for storing a particular length of audio and/or video information such that the program containing the identified event is delayed when supplied to the display upon detection of the event.

8. (Previously Presented) A method of receiving a video and/or audio signal comprising a plurality of different programs, comprising the steps of:

- receiving the video and/or audio signal;
- receiving a user input identifying an event to be detected;
- analyzing the video and/or audio signal of at least one program to detect the identified event in the program; and
- providing to a display the program containing the identified event upon detection of the event.

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9. (Currently Amended) The method as claimed in claim 8, wherein the step of providing provides to a picture-in-picture (PIP) display the program containing the event.

10. (Original) The method as claimed in claim 8, wherein the step of analyzing performs text recognition and scans the video signal for text, and wherein the step of receiving a user input receives text to be detected.

11. (Previously Presented) A method of receiving a video and/or audio signal comprising a plurality of different programs, comprising the steps of:

receiving the video and/or audio signal;

receiving a user input identifying a shape to be detected;

analyzing the video signal of at least one program by performing shape recognition to detect the identified shape in the program; and

providing to a display the program containing the identified shape upon detection of the shape.

12. (Original) The method as claimed in claim 11, wherein the user input is correlated to a particular DCT coefficient pattern and the step of receiving the video receives MPEG-4 video in the form of DCT coefficient patterns and the step of analyzing analyzes the DCT coefficient patterns of the MPEG-4 video to detect the particular DCT coefficient pattern.

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13. (Previously Presented) Computer-executable process steps to detect an event in a video and/or audio signal comprising a plurality of different programs, the computer-executable process steps being stored on a computer-readable medium and comprising:

a receiving step to receive user input identifying an event;

a detecting step to detect in at least one program the identified event; and

an outputting step to automatically output to a display upon detection of the event the program containing the identified event.

14. (Previously Presented) Computer-executable process steps to detect an event in a video and/or audio signal comprising a plurality of different programs, the computer-executable process steps being stored on a computer-readable medium and comprising:

a receiving step to receive user input selecting an audio event;

a speech recognition step to detect in at least one program the audio event that has been selected by a user; and

an outputting step to automatically output to a display upon detection of the event the program containing the selected audio event.

15. (Previously Presented) The computer-executable process steps as claimed in claim 14, further including a text-recognition step to detect text within the video signal of the at least one program.

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16. (Previously Presented) Computer-executable process steps to detect an event in a video and/or audio signal comprising a plurality of different programs, the computer-executable process steps being stored on a computer-readable medium and comprising:

a receiving step to receive user input selecting shape;

a shape detecting step to detect in at least one program a shape that has been selected by a user; and

an outputting step to automatically output to a display upon detection of the event the program containing the selected shape.

17. (Original) The computer-executable process steps as claimed in claim 16, wherein the shape detecting step includes MPEG-4 analysis step for analyzing patterns of DCT coefficients to detect a particular shape in the video stream of the at least one program by detecting a particular DCT coefficient pattern on MPEG-4 video signal.

18. (Original) The computer-executable process steps as claimed in claim 17 wherein the analysis step includes a comparison step for comparing a user selected shape retrieved from a template of shapes defined as patterns of DCT coefficients with the patterns of DCT coefficients received in the MPEG-4 video signal.

19. (Cancelled).

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20. (Cancelled).

21. (Original) Computer-executable process steps stored on a computer readable medium, the computer-executable process steps to detect an audio event in an audio signal including audio information for at least one video program, the computer-executable process steps comprising:

a first receiving step to receive a video signal comprising the plurality of video programs;

a second receiving step to receive the audio signal;

a decoding step to decode the video and audio signals;

a third receiving step to receive an input from a user defining an audio event to be detected in the decoded audio signal;

a detecting step to detect, using speech recognition steps, the user defined audio event; and

a providing step to provide to a display a program having the detected event so that the display of the program captures the event.

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22. (Original) Computer-executable process steps stored on a computer readable medium, the computer-executable process steps to detect text within a video signal including a plurality of programs, the computer-executable process steps, comprising:

a first receiving step to receive the video signal;

a decoding step to decode the video signal;

a second receiving step to receive an input from a user defining text to be detected in at least one program of the video signal;

a detecting step to detect, using text recognition steps, the user defined text in the at least one program of the video signal; and

a providing step to provide to a display the program having the detected text.

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23. (Previously Presented) Computer-executable process steps stored on a computer readable medium, the computer-executable process steps to detect text within a video signal including a plurality of programs, the computer-executable process steps, comprising:

- a first receiving step to receive the video signal;
- a decoding step to decode the video signal;
- a second receiving step to receive an input from a user defining text to be detected in at least one program of the video signal;
- a detecting step to detect, using text recognition steps, the user defined text in the at least one program of the video signal;
- a providing step to provide to a display the program having the detected text; and
- a delay step to delay the program having the detected text so that display of the program captures the text.

24. (Previously Presented) An apparatus for detecting an event in a video signal comprising a plurality of programs, the apparatus comprising:

- a memory which stores process steps; and
- a processor which executes the process steps stored in the memory so as (i) to receive user input identifying an event, (ii) to detect, in at least one program, an event which has been identified by a user, and (iii) to output automatically to a display upon detection of the identified event the program containing the event.

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25. (Cancelled).

26. (Original) An apparatus for detecting an audio event in an audio signal which includes audio information for at least one video program, the apparatus comprising:

a memory which stores process steps; and

a processor which executes the process steps stored in the memory so as (i) to detect in the audio information of at least one video program, using speech recognition, an audio event which has been selected by a user, and (ii) to output automatically to a display, upon detection of the audio event, the video program containing the audio event.

27. (Previously Presented) An apparatus for detecting text in a video signal comprising a plurality of programs, the apparatus comprising:

a memory which stores process steps; and

a processor which executes the process steps stored in the memory so as (i) to receive user input containing a text selection, (ii) to detect, in at least one program, text which has been selected by a user, and (iii) to output automatically to a display upon detection of the text the program containing the selected text.